

Title (en)  
EVENT BASED COMPUTER VISION COMPUTATION

Title (de)  
EREIGNISBASIERTE BERECHNUNG VON MASCHINELLEM SEHEN

Title (fr)  
CALCUL DE VISION ARTIFICIELLE BASÉ SUR UN ÉVÈNEMENT

Publication  
**EP 3201827 A1 20170809 (EN)**

Application  
**EP 15778823 A 20150924**

Priority  
• US 201462057927 P 20140930  
• US 201514859146 A 20150918  
• US 2015052067 W 20150924

Abstract (en)  
[origin: US2016094787A1] Certain techniques are provided for triggering events based on detecting changes in CV features, such as edges, corners etc., by generating computed results based on sensor readings. Yet other techniques also provided for detecting CV features once an event is detecting based on a change in a sensor reading for a sensor element. In certain aspects, the event detection logic and the feature calculation CV vision operations may be performed, individually, or in combination in circuitry on a sensor or in software/firmware on a computing device.

IPC 8 full level  
**G06F 3/03** (2006.01); **G06V 10/44** (2022.01)

CPC (source: EP US)  
**G06F 3/0425** (2013.01 - EP US); **G06V 10/44** (2022.01 - EP US); **G06V 10/955** (2022.01 - EP US); **H01L 27/14643** (2013.01 - EP US); **H04N 25/47** (2023.01 - EP); **H04N 25/707** (2023.01 - EP); **H04N 25/75** (2023.01 - US); **H04N 25/76** (2023.01 - EP); **H04N 25/77** (2023.01 - EP US); **H04N 25/78** (2023.01 - EP); **G06V 10/467** (2022.01 - EP US)

Citation (search report)  
See references of WO 2016053761A1

Citation (examination)  
• JP 2009140149 A 20090625 - KDDI CORP  
• "Teach Pixy an object", 21 August 2014 (2014-08-21), Retrieved from the Internet <URL:https://web.archive.org/web/20140821021250/http://www.cmucam.org:80/projects/cmucam5/wiki/Teach\_Pixy\_an\_object> [retrieved on 20181119]  
• "Hooking up Pixy to a microcontroller like an Arduino", 28 August 2014 (2014-08-28), Retrieved from the Internet <URL:https://web.archive.org/web/20140828021832/http://cmucam.org:80/projects/cmucam5/wiki/Hooking\_up\_Pixy\_to\_a\_Microcontroller\_like\_an\_Arduino> [retrieved on 20181119]  
• PIXY: "Pixy Kickstarter Video", YOUTUBE, 2 April 2014 (2014-04-02), pages 2 pp., XP054978882, Retrieved from the Internet <URL:https://www.youtube.com/watch?time\_continue=20&v=J8sl3nMIYxM> [retrieved on 20181120]

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**US 10728450 B2 20200728**; **US 2016094787 A1 20160331**; CN 106716441 A 20170524; CN 106716441 B 20210525; EP 3201827 A1 20170809; JP 2017531865 A 20171026; WO 2016053761 A1 20160407

DOCDB simple family (application)  
**US 201514859146 A 20150918**; CN 201580050415 A 20150924; EP 15778823 A 20150924; JP 2017516855 A 20150924; US 2015052067 W 20150924